

FAREER, V.B., prof.

K.K. Zeidlits as a clinician. Alin.med. 36 no.1:154-158 Ja '58.
(MIRA 11:3)

(ZEIDLITS, KARL KARLOVICH, 1798-1885)

FARBER, V.B., prof.

M.I. Arinkin, an outstanding figure in Soviet medicine; on the 10th anniversary of his death. Probl.gemat. i perel.krovi 4 no.2:40-46 F '59.

(BIOGRAFHIES,

Arinkin, Mikhail I. (Rus))

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FARBER, V.B., prof.

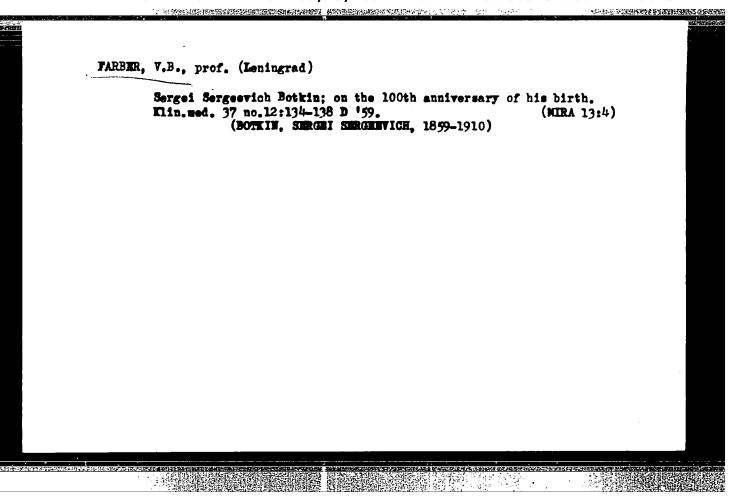
Basic principles in the treatment of acute radiation injuries. Terap. arkh. 31 no.8:12-17 Ag '59. (MIRA 12:11)

1. Iz kafedry terapii dlya usovershesntvovaniya vrachey Mo.1 (nach. - prof. P.I. Shilov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(RADIATION INJURY therapy)

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SHUL'TSEV, G.P., polkovnik meditsinskoy sluzhby, doktor med. nauk; FARBER,
V.B., polkovnik meditsinskoy sluzhby, professor

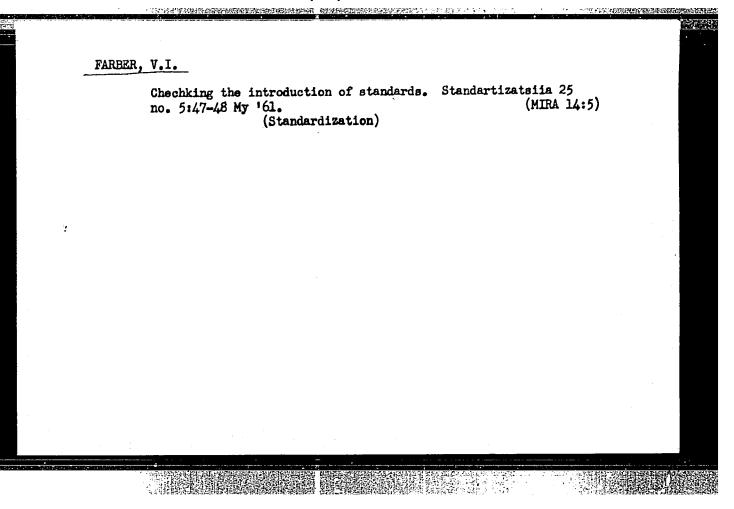
"Field therapy in military medicine," edited by B.D.Ivanovskii.
Reviewed by G.P.Shul'tsev, V.B.Farber. Voen.-med. zhur. no.3:8995 Mr '60. (MEDICINE, MILITARY)
(IVANOVSKII, B.D.)

FARHER, V.B.; KULAKOV, V.I.

Problem of the combination of leukemias with neoplastic processes.
Problegemat.i perel.krovi 5 no.6:56-61 Je '60.

(MIRA 13:12)

(LEUKEMIA) (TUMORS)



L 18738-66 EWT(m)/EWA(d)/EWP(t) JD/WB

ACC NR: AP6005136

SOURCE CODE: UR/0126/66/021/001/0048/0053

AUTHOR: Shklyar, R. S.; Smirnov, M. A.; Shteynberg, M. M.; Sokolkov, Ye. N.; Farber, V. M.

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52

ORG: <u>Ural Polytechnic Institute im. S. M. Kirov</u> (Ural'skiy politekhnicheskiy institut); Institute of Metal Physics, AS USSR (Institut fiziki metallov AN SSSR)

TITLE: Investigation of the fine structure of sustenitic steel with intermetallide hardening, deformed over a broad range of temperatures

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 1, 1966, 48-53

TOPIC TAGS: fine structure, sustenitic steel, x ray analysis, plastic deformation, metal grain structure/EI612K sustenitic heat resistant steel

ABSTRACT: Knowledge of the type of fine structure arising in the hot- and cold-worked metal as a function of the regime of its deformation is a prerequisite to selecting the optimal regimes of its hardening. In this connection, the authors radiographically examined fine structure of austenitic heat-resistant steel EI612Kf(0.08% C, 14.9% Cr, 36.1% Ni; 3.25% W; 3.8% Co; 0.65% Ti, 1.26% Al) according to the shape, structure and intensity of the (220) and (311) reflexes, with measurements of the lattice constant of the solid solution. Hardening phases were isolated by means of electrolytic dissolution. Texture was examined following various regimes of defor-

Card 1/2

UDC: 669.15.018.45 + 157.97

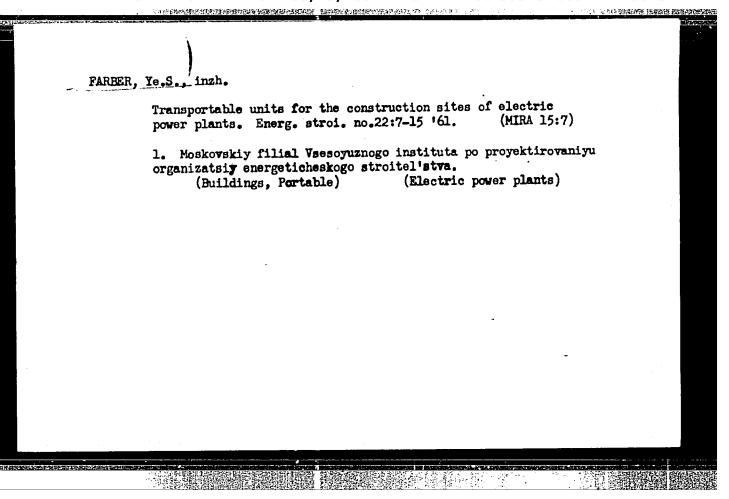
L 18738-66

ACC NR: AP6005136

mation. Prior to their radiographic examination the specimens were heated to 1180°C for 2 hours, whereupon they were partially cooled at an average rate of 500 deg/min to various temperatures within the 1100-400°C range. The exposure to various partialcooling temperatures in the furnace (1100-700°C) and in a salt bath (600 and 400°C) lasted 3 minutes. After this part of the specimens was deformed at these temperatures in a grooved rolling mill with 25-30% reduction in area and with subsequent water quenching, while the other part was quenched without prior deformation. It was established that quick partial cooling leads to the comminution of grains into fragments. Plastic deformation at 1100 and 1000°C intensifies this fragmentation of structure. At lower deformation temperatures (900-20°C) the formation of fragmented structure is not observed. Decomposition of the supersaturated solid solution was observed throughout the temperature range investigated. Texture-formation occurs already in the presence of relatively small deformation (20-30%) and this must be taken into account, since texturedness of the material complicates the analysis of radiographic data. Roentgenograms of the specimens display a large number of Laue reflections, as well. as isolated distinct reflexes (220) and (311) . The Laue reflections often consist of two spots displaced relative to each other and linked by a common background; the reflexes (220) and (311) became subdivided into several overlapping subspots; all this points to an intensive fragmentation of the grains, particularly on partial cool ing to 800-700°C. Orig. art. has: 3 figures and 2 tables.

SUB CODE: 11, 13, 20/ SUBM DATE: 20Jan65/ ORIG REF: 008/ OTH REF: 001

Card 2/25/10



FARBER, Ye.S., inzh.

Mechanized construction of temporary structures. Energ. stroi. no.34: 99-100 '63. (MIRA 17:1)

1. Moskovskiy filial Vsesoyuznogo instituta po proyektirovaniyu organizatsiy energeticheskogo stroitel'stva.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

FadBad, Yu. D.

"12-Caple System of High-Frequency Telephony on Cable Lines (K-12)". One of a series of Telecommunications lectures given by experts in the scientific research institutes and educational institutes.

SO: Vest. Svyazi, p 24, No. 6, 1952.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

FARBER, Yu. D., PEKARSKIY, D. Ye., STEPANOV, G. N.

"THE VUS-21 AUXILIARY REMOTELY SUPPLIED REPEATER STATION"

Vestnik Svyazi, No 8, 1952, pp 3-5

Translation M-1284, 8 Nov 56

FARBER, Yu. D. Engineer at the Assembly and Measurement Bureau, Intercity Communications Construction Organization.

POPARTHORISETHISEOGRAPHISEOGRAPHISEOGRAPHISE SECTION SECURIOR CONTRACTOR CONT

"Placement of VUS-12 Stations on Trunk Lines" Vestnik Svyazi, No. 12, 1954. pp 12-14

Translation M-3,053,361 14 Feb 1957

FARBER, Yu.D.

Modernizing ISA-2 measuring stands. Vest.sviasi 14 no.4:9-12 Ap 154. (MIRA 7:6)

THE PROPERTY OF THE PROPERTY O

1. Inshener Montashno-ismeritel'nogo upravleniye tresta "Meshgorevyas'stroy". (Telephone--Testing)

SIMONOVA, G.V.; ROZOVSKAYA, M.I.; FAREER, Yu.D.

***REPRESENTATION**

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1. Glavnyy inshener Montashno-ismeritel'nogo upravleniya tresta "Meshgorevyas'stroy." (for Simonova) 2. Inshenery Montashno-ismeritel'nogo upravleniya (for Rosovskaya, Farber).

(Telephone lines)

Translation

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FARBER, Yu.D., inshener.

Adjusting high-frequency aerial trunkline channels under difficult meteorological conditions. Vest.sviasi 15 no.12:5-7 D '55.

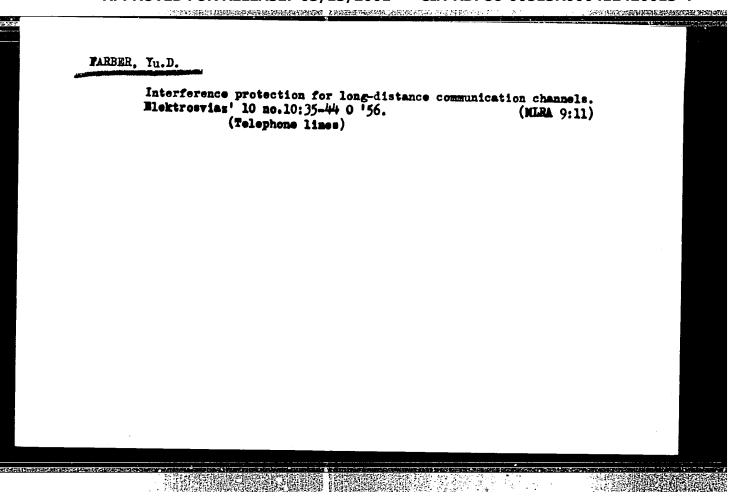
(MLPA 9:3)

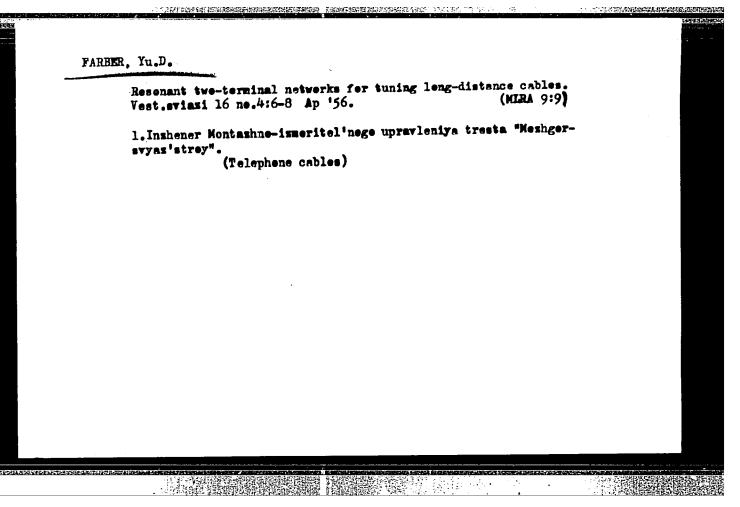
1. Montashnoye-ismeritel'noye upravleniye tresta "Meshgorsvyas'stroy". (Electric lines--Overhead)

(Telecommunication-Cold weather operation)

Translation M-1248, 27 5456

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"





TELEPHONY

FARDER, Yu. D.

"Noise Rejection of Various Channels of Multi-Channel Systems Used for Multiplexing Symmetrical Cables" by Yu. D. Farber, Engineer of Wir ng Administration of the "Mezhgorsvyaz'stroy" Trust. Vestnik Svyazi, No 12, December 1957, pp 5-7.

Discussion of factors that effect the internal noise voltages in various channels of the K-24 multiplexing system, and proposal for a simplified method of determining the expected values of this voltage.

Card: 1/1

-2-

TELEPHONY

"Use of Transistors in Amplifiers for Multi-Channel High Frequency Telephony Systems" by Yu. D. Farber. Elektrosvyaz', No 12, December 1957, pp 50-57.

The article treats essentially the application of transistors in the Russian K-24 24 channel system.

Card: 1/1

-1-

FARBER, Yu.D. inzhener.

Interference killing feature for high-frequency channels of main cable lines. Vest.sviasi 17 no.1:9-12 Ja *57. (MLRA 10:2)

 Montazhnoye upravleniye tresta "Mezhgorsvyaz'stroy." (Electric cables)

The second of the second secon

307/111-58-11-9/26

AUTHOR:

Farher, Yu.D. and Shliomovich, Ye.M., Engineers of "Mezh-

gorsvyaz'stroy"

TITLE:

Communication Mains Using Transistor Amplifiers

(Magistral'nyye svyazi s usilitelyami na poluprovodnikovykh

triodakh)

PERIODICAL:

Vestnik svyazi, 1958, Nr 11, pp 10-11 (USSR)

ABSTRACT:

Scientific research institutes of the radio industry in cooperation with "Mezhgorsvyaz'stroy have developed transistor
amplifiers for repeater stations. The "VKUS-24" has
three stages: the first is equipped with one "P6D" transistor;

three stages: the first is equipped with one "P6D" transistor; the other two stages have one "P6G" transistor each. The models installed on condensed communication lines have cylindrical housings, 145 mm long and 40 mm in diameter. They require 5-8 milliamps at 24 volts dc. At a frequency of 108 kc the amplification amounts to about 4.7 nones.

108 kc the amplification amounts to about 4.7 nepers. Figure 1 shows the circuit diagram of another two-stage amplifier with one "PlA" and one "PlB" transistor. It is contained in a housing 75 x 75 x 75 mm. At a frequency of C.8 kc the amplification is 2.7 nepers. A current of 5-7 milliamps is re-

Card 1/2

SOV/111-58-11-9/36

Communication Mains Using Transistor Amplifiers

quired at 24 volts dc. Further, a LF loudspeaker amplifier is mentioned which has three stages. The first stage has one "PID" transistor, the second has one "P6A" and the third stage has two "P2B" transistors, the latter work in a pushpull system. At a frequency of 0.8 kc the amplification is 4 nepers. A current of 8-12 milliamps is required at 24 volts dc. The amplifier is enclosed in a case of 156 x 75 x 75 mm. Experimental investigations and measurements showed the suitability of transistor amplifiers for reducing the size of telephone equipment. There is 1 circuit diagram.

ASSOCIATION: "Mezhgorsvyaz'stroy"

Card 2/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

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SOV/106-58-11-7/12

AUTHOR:

Farber, Yu.D.

TITLE:

The Choice of the Parameters of High-Frequency Transistor Amplifiers for Trunk Cables (K vyboru parametrov poluprovodnikovykh usiliteley VCh dlya kabel'nykh magistraley).

PERIODICAL: Elektrosvyaz', 1958, Nr.11, pp.52-61 (USSR)

ABSTRACT:

The advent of transistor amplifiers makes it necessary to reconsider those factors which control the distribution of repeater points along a trunk line. A method is given of determining the necessary gain and gain adjustment limits of transistor amplifiers without a.g.c. for multi-channel high-frequency telephone systems. If the measured level at the output of an amplifier is P, and the level of the characteristic noise in the frequency band of the signal channel at the input to the amplifier is P, then the noise power coming from the amplifier at a point L: km from it where the measured level is Po, is given by (I). In this expression, \$\beta_{max}\$ is the attenuation per km of the cable at the frequency considered for maximum ground

Card 1/6

SUV/106-58-11-7/12

The Choice of the Parameters of High-Frequency Transistor Amplifiers for Trunk Cables.

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temperature, b_{cm} is the attenuation of the station equipment at the same frequency, Δ is a parameter, constant for a given h.f. system. Strictly speaking P_{ψ} and ℓ_i are interdependent; however, since in the present work only characteristic amplifier noise is considered P, will appear as an independent constant. For a cable length L the total characteristic amplifier noise must not exceed (2). An analysis of this expression using Lagrange multipliers shows that the optimum distribution of repeaters is at a distance & km from one another. This recommended value is implicit in (3) which is only valid, however, if each amplifier is fitted with a.g.c. If fixed gain amplifiers are used, with gain adjusted at the minimum ground temperature, then when the latter increases the noise level at the end of the chain of amplifiers will increase and the noise stability of the system will be degraded. Analysis shows that in this case the lengths of the repeater sections should not all be equal but should be greatest in the middle of the trunk and fall off towards either end. Numerical

Card 2/6

SOV/106-58-11-7/12

The Choice of the Parameters of High-Frequency Transistor Amplifiers for Trunk Cables.

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calculations however show that the dispersion in length is small and generally speaking in what follows they will be taken as equal. On this basis (6) gives a criterion for setting up communication using fixed-gain amplifiers. The value L in (6) is a limiting one and it can only be extended if repeaters are inserted at closer intervals. For this reason it is common practice to make every k-th repeater with a.g.c. When using valve amplifiers, k is limited by the extent to which it is possible to supply power to the repeater stations. When using transistor amplifiers power requirements are very much lower and it is possible to use a sufficiently large number of repeater stations. Inequality (7) corresponds to the contemporary structure of trunk cables containing both fixed and variable gain amplifiers. Its generality may be judged by putting in k=1, giving (3), and $k=L/\ell$, giving (5). necessary amplifier gains are (8) where $\Delta \beta k \ell$ necessary ambit of a.g.c. Generally speaking the line length containing fixed-gain repeaters has a recommended

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APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

SOV/106-58-11-7/12 The Choice of the Parameters of High-Frequency Transistor Amplifiers for Trunk Cables.

THE SECOND PARTICULAR PRODUCTION OF THE PRODUCT OF THE SECOND PRODUCTION OF THE SECOND PRODUCTIO

value but this cannot always be achieved in practice. it is supposed that the recommended distance between a.g.c. repeater stations is never exceeded, then (9) and (10) enable the number of fixed-gain repeaters to be decided and also the required range of gain adjustment. The numbers of The numbers of fixed-gain and a.g.c. amplifiers can be found from (12). The overall number of amplifiers may be reduced if the intervals between a.g.c. amplifiers is reduced and fixedgain repeaters are installed rather further apart. improvement is obtained at the expense of a wider range of Even this may be reduced somewhat by varying adjustment. the distance between fixed-gain amplifiers. Eq.(16)gives a suitable method of splitting up the total length. In this variant it may be necessary to use artificial lines to restore signal levels or to provide gain adjustment at the inputs to a.g.c. amplifiers. If we include that method of design which tolerates only a narrow range of adjustment on the fixed-gain amplifiers there are 4 possible variants which may be described as follows: 1. Reduction

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SOV/106-58-11-7/12

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The Choice of the Parameters of High-Frequency Transistor Amplifiers for Trunk Cables.

> of gain; 2. Adjustment within wide limits; 3. Fixed gain; 4. Adjustment within narrow limits. The design procedure recommended is: From (7), $\ell = \phi(k)$ and $\ell = \psi(k\ell)$ are found; from economic considerations k is chosen; using (9), (11) and (14) the required limits of gain adjustment are found; then from (7a) using successive approximation if necessary, kill and lill are found and a precise distribution law for Vi . The expected number of amplifiers is now found for various methods of distributing the repeater stations, and a comparison of the results determines the most suitable choice in a given case. Figs. l and 2 show $\rho(P_{y},k)$ and $\psi(P_{y},k)$ for a 60-channel symmetrical cable system. Here $P_{z}=+0.5$ neper, $P_{y}=-15.2$ neper and $P_{y}=+0.5$, -0.5, -1.5 neper. Table 1 gives basic data for a 1200 km trunk line for various values of P, and k. If we now suppose that k=7 and V is uniformly distributed between 0.45 and 1, then for Pv=+0.5 nepers Table 2 plots, for the 4 variants considered above, the maximum and minimum section lengths,

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SUV/106-58-11-7/12

The Choice of the Parameters of High-Frequency Transistor Amplifiers for Trunk Cables.

> maximum and minimum gain, the required number of amplifiers and the noise level. Table 3 presents similar data for P = -0.5 nepers. Non-linear effects have been neglected altogether but the author hopes to publish a separate paper on this topic. There are 2 figures and 3 tables.

SUBMITTED: July 31, 1958

Card 6/6

Using amplifiers with semiconductor triodes in nationwide communication service. Vest.sviasi 18 no.11:10-11 N '58. (MIRA 11:12)
l. Montazhnoye upravleniye tresta "Mezhgorsvyaz'stroy." (Transistor amplifiers)

OGARKOV, Petr Feddrovich; POLYAK, M.U., kand.tekhn.nauk, retsensent;

WARENE In.D., inzh., otv.red.; PETROVA, V.Ye., red.; MARKOCH,

K.G., tekhn.red.

[Long distance calls] Meshdugorodnoe telefonirovanie. Moskva,

Gos.izd-vo lit-ry po voprosam sviasi i radio, 1959. 99 p.

(MIRA 12:8)

(Telephone lines)

AUTHOR: Farber, Yu.D. Engineer SOV/111-59-1-15/35

TITLE: Progressive Technology Must Be Introduced into the Construction of Main Cable Lines (Vnedrit progressivnuyu tekhniku

na stroitel'stve kabel nykh magistraley)

PERIODICAL: Vestnik svyazi, 1959, Nr 1, pp 13 - 14 (USSR)

ABSTRACT: To expedite and improve the construction of cable trunk lines

for inter-city telephone communications, the repeater stations should be transistorized, and measuring devices necessary for fault and leak detection and control purposes during the construction should be of a remote-control and visible-

recording type.

ASSOCIATION: Montazhnove unravleniye tresta "Mezhgorsvyaz'stroy" (The

Assembly Administration of the "Mezhgorsvyaz'stroy" Trust).

Card 1/1

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SOV/4781

Farber, Yuliy Davidovich

Izmereniya i nastroyka mnogokanal'nykh sistem uplotneniya simmetrichnykh kabeley svyazi (Measurements and Adjustment of Multichannel Multiplexing Systems of Symmetric Communication Cables) Moscow, Svyaz'izdat, 1960. 238 p. 6,300 copies printed.

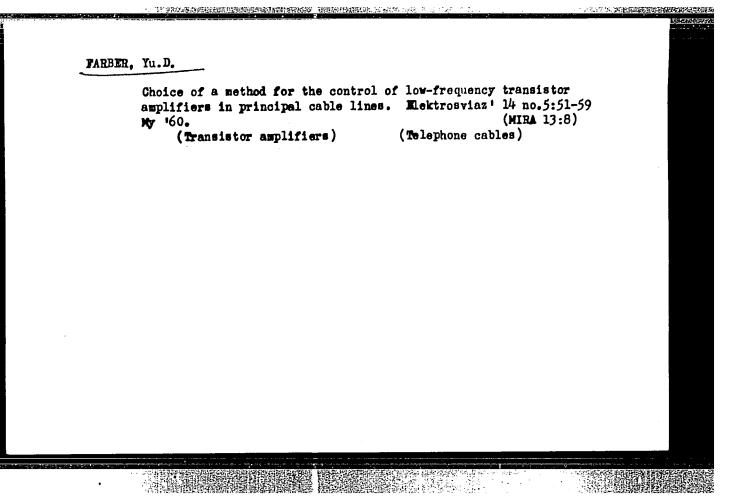
Resp. Ed.: E.I. Shishkina; Ed.: V. Ye. Petrova; Tech. Ed.: K.G. Markoch.

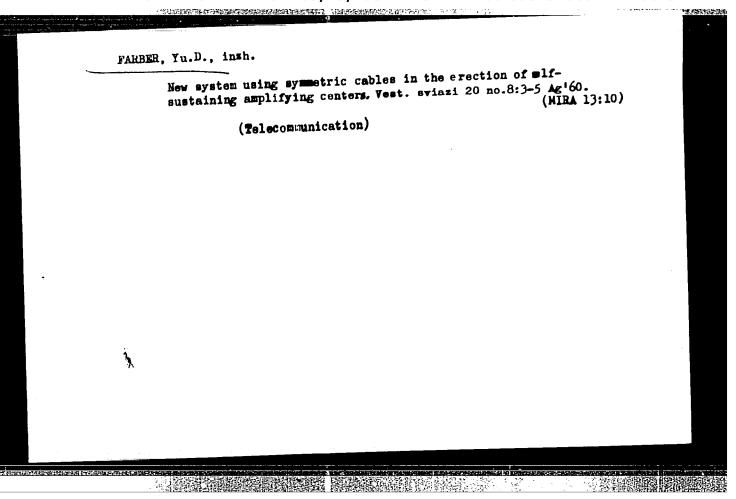
PURPOSE: This book is intended for the personnel of long-distance main cable telephone offices. It will also be of use to members of planning organizations and students of communications in institutes and tekhnikums.

COVERAGE: The book attempts to generalize the experience accumulated by the specialized services of the Ministry of Communications, USSR, in carrying out adjustment measurements on its main lines. Problems dealing with the preparation of measurements (the computation of expected parameters), equipment adjustment at terminal and tandem offices, and main line measurements of h-f channels are reviewed. The concluding chapter deals with methods recently

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BOV/4781 Measurements and Adjustment (Cont.) developed for reducing the time required to make adjustment measurements. The author thanks I.P. Petrushin, Responsible Editor E.I. Shishkina, L. Ya. Burda, Ye. P. Kuznetsov and M.I. Rozovskaya. There are 9 references, all Soviet. TABLE OF CONTENTS: 3 Foreword 5 5 7 Ch. I. Problems and Organization of Adjustment Measurements 1. Problems of adjustment measurements 2. Standards for telephone channel systems K-12 and K-24 18 3. Organization of adjustment measurements Ch. II. Preparation of Adjustment Measurements 1. Computation of the expected positions of amplification controls 23 2. Computation of expected level values at different points of the 148 transmission channel 3. Computation of expected voltage values of set noises and voltages 53 for nonlinear and linear transitions 4. Adjustment of amplifiers adjacent to sections whose attenuation is below the minimum and above the maximum of the amplifying 67 Card 2/5





DIVNOGORTSEV, Gennadiy Petrovich; NOVIKOV, Vasiliy Aleksandrovich; FARBER,
Yuliy Davidovich; EELOUS, V.M., kand. tekhn. nauk, retsenzent;
YAKUB, Yu.A., kand. tekhn. nauk, retsenzent; NOVIKOV, V.A., otv.
red.; PETROVA, V.Ye., red.; SHEFER, G.I., tekhn.red.

[Long-distance communications apparatus] Apparatura dal'nei sviazi.
Moskva, Gos. izd-vo lit-ry po voprosem sviazi i radio, 1961. 439 p.

(MIRA 14:11)

(Radio relay lines) (Telephone)

22211 S/106/61/000/001/007/008 A055/A033

6.7110 (1/21, 1584)

AUTHOR:

Farber, Yu. D.

TITLE:

Choosing the circuit of semiconductor repeaters in multichannel

systems of multiplexing balanced cables

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PERIODICAL: Elektrosvyaz', no. 1, 1961, 58 - 65

TEXT: When vacuum-tube-repeaters are used in multichannel systems of multiplexing balanced cables, the slope of the frequency response curve of the repeaters is controlled by frequency-dependent circuits connected as shown in diagram (a) (see Figure 1). But when semiconductor-repeaters are used, such a connection can give rise to difficulties in obtaining the required characteristics. Therefore, the connecting diagram (b) of figure 1 is resorted to in this case, where two frequency-independent repeaters S₁ and S₂ are used, a line equalizer (with attenuation b₁ eq (f)) being inserted between them. [Abstracter's note: subscript 1 eq (line equalizer) is a translation of the original of (lineyny) vyravnivatel')]. This substitution of diagram (b) for diagram (a) alters, however, the conditions of signal transmission through high-frequency channels and, in particular, the noiseproof feature. The relations used in the choice of the funda-

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mental parameters of the repeaters and in the calculation of the channels must be modified accordingly. It proves necessary either to render more severe the requirements set upon the repeaters (as regards the level of the noises generated by them and the attenuation of non-linearity), or to reduce the length of the repeater sections. The author carries out a comparative investigation of both diagrams of figure 1 and, then, a comprehensive analysis of the conditions set by the use of diagram (b). This analysis brings him to the conclusion that the substitution of diagram (b) for diagram (a) is far from being advantageous. The connection of the semiconductor-repeaters according to diagram (a) seems therefore preferable to him. There are 4 figures and 5 Soviet-bloc references.

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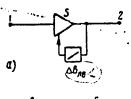
July 5, 1960

Choosing the circuit of

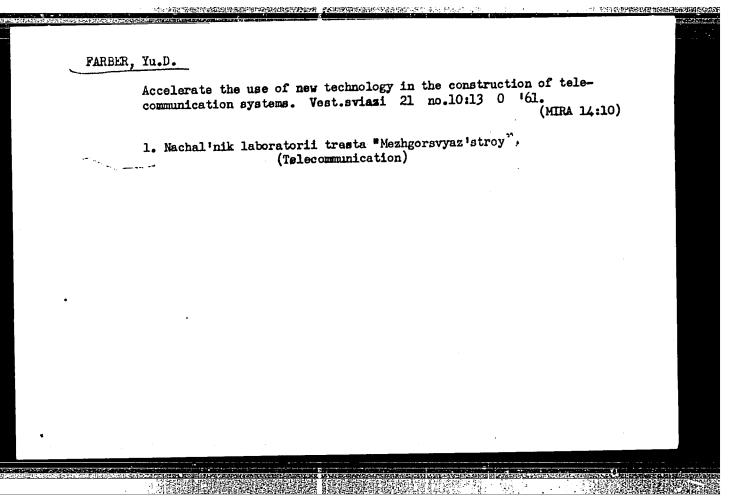
Figure 1:

 $1 - \Delta b_1$ eq

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A055/A101

6.7000 6.2000

Farber, Yu.D.

Choosing the predistortion of the output levels in multichannel HF AUTHOR: TITLE:

telephony systems with transistorized repeaters

Elektrosvyaz', no. 4, 1962, 38 - 47 PERIODICAL:

This article deals with the determination of the optimum predistortion of the output levels in multichannel systems. Three kinds of interferences are considered. The power of nonlinear interferences, measured at the repeater output in the frequency band of one channel and depending on the order-number n of this channel, is expressed by Pnonlin (n). The power of thermal interferences, measured at the repeater output in the frequency band of the channel n, is expressed by PT (n, 1), 1 being the length of the preceding repeater section. The power of interferences due to linear transitions, measured in channel n in the point with level 0 nep, is expressed by Plin (0) (n). In the absence of predistortion, when the measuring level of all the channels at the output of the repeaters is equal to pa nep, the interference immunity of channel n is:

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Choosing the predistortion of the output

where p_{T}^{i} (n, 1) and p_{nonlin}^{i} (n) are, respectively, the resultant powers of thermal al and nonlinear interferences of all the repeaters in point with level p_{a} , and Plin (0) (n) is the resultant power of the "linear transitions" interferences of all the sections in point with level O nep. In the presence of predistortion,

all the sections in point with level of the sections in point with level of this formula becomes:

$$\sigma_{1}(n) = -\frac{1}{2} \ln \left\{ \left[P_{T}^{i}(n, 1) + P_{nonlin}^{i}(n, p(n)) \right] e^{-2p(n)} + P_{lin}^{i}(0) \right\}, \quad (2)$$

on the predictor function p(n). If the required quality reverse of interfer-

pa being replaced by the predistortion function p (n). If the required quality of communications over a length of L km is ensured at a total power of interferences (in point with least 1). ences (in point with level 0 nep) equal to $\alpha(L)$ mw, then: (3)

in point with level 0 nep) equal to
$$\alpha$$
 (L) mw, then:
[P_T (n, 1) + P' nonlin (n, p (n))] $e^{-2p(n)} = \alpha$ (L) - P' nonlin (3)

The optimum predistortion function will be the one which permits condition (3) to be satisfied in all the n channels of the system. For practical calculations, the unknown quantities in (3) are 1, p (n) and also Pnonlin (n, p (n)) that depends on p (n). The author discusses the optimum choice of 1 and p (n). He proceeds next to an exhaustive analysis of the simplest particular case, where the

Card 2/3

Choosing the predistortion of the output

S/106/62/000/004/006/010 A055/A101

predistortion of the output levels is realized according to the linear law. In this analysis, he determines the spectral distribution of the power of the second-order nonlinear interferences. At the end of the article, he reproduces (for a line of L km with repeater sections of 1 km) a set of expressions permitting the calculation of the quantities contained in formula (3), e.g., \Pr (n, 1) and \Pr (n, p). The Soviet personalities mentioned in the article are: A.A. Leshchinskiy and N.E. Popova. There are 4 figures and 3 Soviet-bloc references.

· · · The care of the control of the

SUBMITTED: November 23, 1961

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

FARBER, Yuliy Davydovich; RIZKIN, I.Kh., otv. red.; VOLODARSKAYA, V.Ye., red.; ROMANOVA, S.F., tekhn. red.

· 中心性性的原因的原因的特殊的。

[Calculation of the characteristics of multichannel communication systems using transistor amplifiers] Raschet kharakteristik mnogokanal'nykh sistem sviazi s tranzistornymi usiliteliami. Moskva, Sviaz'izdat, 1963. 171 p.

(MIRA 17:1)

45682

9.3240

8/106/63/000/002/005/007 A055/A126

AUTHOR:

Farber, Yu.D.

TITLE:

On the relation between the powers of thermal and nonlinear interferences in multichannel systems with transistorized repeaters

PERIODICAL:

Elektrosvyaz', no. 2, 1963, 48 - 57

TEXT: Only the total power of interferences in HF channels has been standardized by the International Telegraph and Telephone Consultative Committee. In his article ("Nachrichten Technik", no. 2, 1962), Krause stated that the powers of thermal and nonlinear interferences must be chosen equal, but there is no indication as to the channel in which this equality must be obtained. It is necessary, therefore, to render more precise the recommendations as regards the distribution of the permissible interference power, account being taken of the parameters of the transistors and multichannel repeaters. In consideration of this, the author examines the frequency dependence of the power of thermal and nonlinear interferences in the channels of a wide-band system with transistorized repeaters, under the assumption that this system must work with sufficiently low

Card 1/3

8/106/63/000/002/0**05/007** A055/₃126

On the relation between the powers of thermal

transmission levels, at which the power of nonlinear interferences of the third order can be neglected. Starting from formulae

$$P_{th(n)} = e^{2(p_{th\,n}^{\dagger} + S_n)} e^{-2p_n}$$
 (1)

and

$$P_{\text{nonlin}(n)} = 4e^{-2b_2(0)n} P_{\text{tot}}^2 y_{2n} e^{-2p_n}$$
, (2)

where $P_{th(n)}$ and $P_{nonlin(n)}$ are respectively the power of thermal and non-linear interferences introduced by one line-repeater into the point with relative zero level of channel n, $p_{th,n}$ is the level of thermal interferences, measured at the repeater-element input in the frequency band of channel n, S_n is the repeater-element amplification at the mean frequency of the channel, p_n is the measuring transmission-level, $b_{2(0)n}$ is the attenuation of the nonlinearity of the second harmonic with a frequency equal to the mean frequency of the channel at 0-nep signal-level at the repeater output, p_{tot} is the total signal-power at the repeater output and y_{2n} is a coefficient taking into account the part of

Card 2/3

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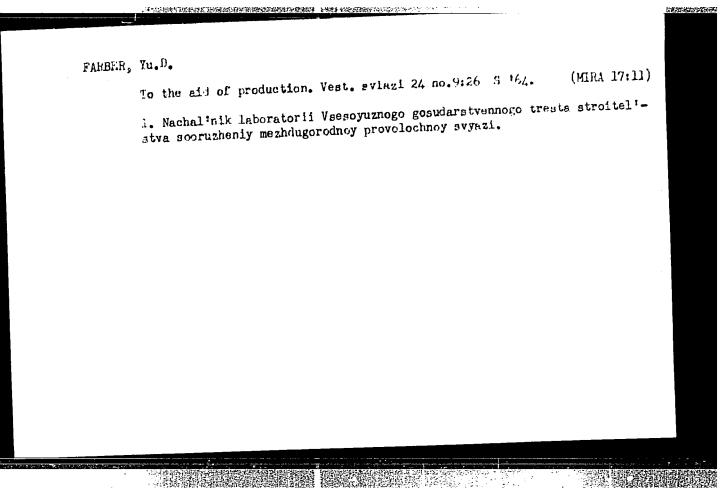
On the relation between the powers of thermal

the total power of nonlinear products that gets into the frequency band of channel n, the author shows analytically that, in various cases, the equality of the powers of thermal and nonlinear interferences can be obtained only in definite channels; he also specifies the conditions that must be satisfied for obtaining this equality in the highest and lowest channel, respectively, (highest and lowest with regard to frequency). He concludes that it is not expedient to choose in advance a determined relation between the thermal and nonlinear interference powers. He recommends the use of combined predistortions of output levels. There are 2 figures.

SUBMITTED: August 14, 1962

Card 3/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"



1-8553-66

ACC NR: AP5011569

SOURCE CODE: UR/0106/65/000/004/0048/0055

AUTHOR: Farber, Yu. D.

23

ORG: none

TITLE: Dispersion in the attenuations of amplification sections in coaxial cables

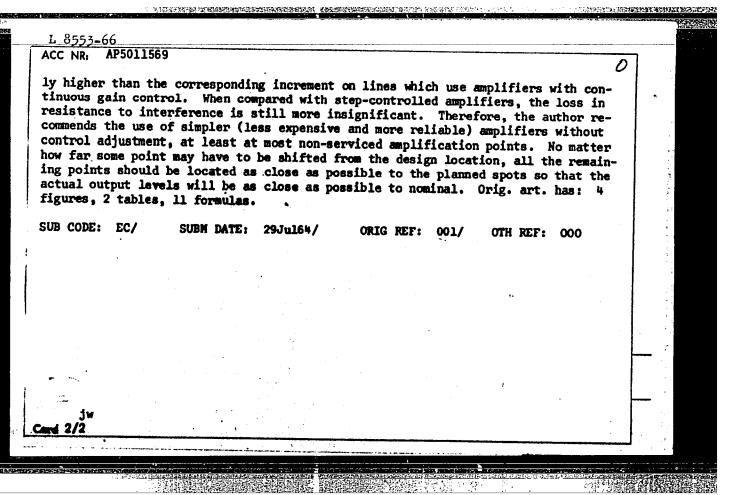
SOURCE: Elektrosvyaz', no. 4, 1965, 48-55

TOPIC TAGS: coaxial cable, interference reduction, hf amplifier

ABSTRACT: Formulas are derived for calculating the interference power increment in hf channels due to scattering of attenuations in the amplification sections. These formulas are useful in the development of new multichannel systems as well as during planning and alingment measurements on specific lines with a large number of intermediate points. It is found that when the dispersion of attenuations in the various sections is equal, a minimum interference power increment is achieved by using amplifiers with continuous gain control and fixed nonlinearity damping. In amplifiers with variable nonlinearity damping, the increment in interference power increases with $\Delta a_{3(0)}$, and if $\Delta a_{3(0)}(B) = \Delta a(B)$, these amplifiers have greater interference than those without control adjustment. For the case of damping dispersion in sections which are feasible in actual practice, the interference power increment in channels on lines where amplifiers without control adjustment are used is only slight

Card 1/2

UDC: 621.395.733.018.8



ARLASHCHENKO, N.I.; BOKHOV, B.B.; BUSYGIN, V.Ye.; VOLOKHOVA, N.A.;
GRIGOR'YEV, Yu.C.; POLYAKOV, B.I.; FARBER, Yu.V.

Body reactions during the prolonged effect of coriolis accelerations. Biul. eksp. biol. 1 med. 56 no.8:28-33 Ag '63.

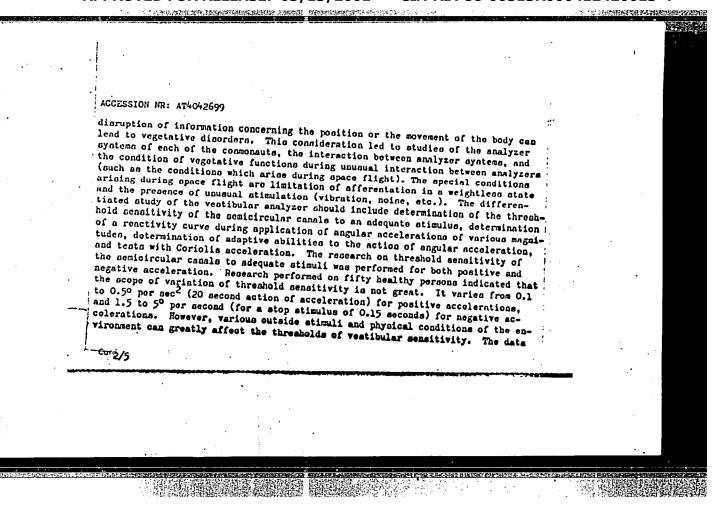
(MIRA 17:7)

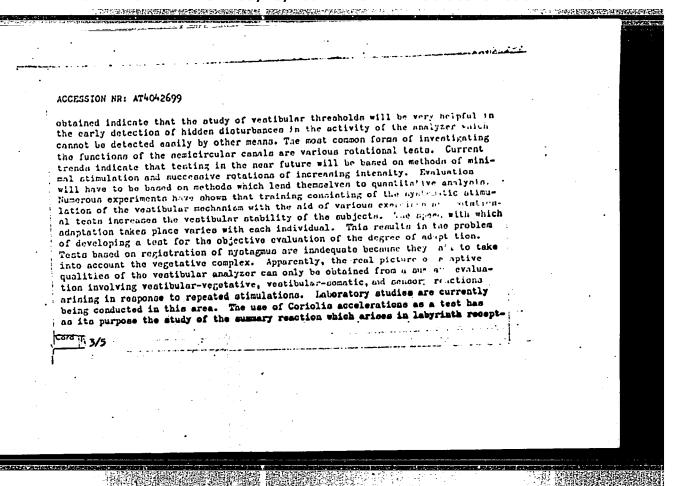
1. Naushnyy rukovoditel' -- deystvitel'nyy chlen AMN SSSR prof. A.V. Lebedinskiy. Predstavleno deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

17. 清洁器

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ACCESSION NR: AT40					
AUTHOR: Lebedinak	iy. A. V.: Amina	about on a	6/0000/63/000/000/0	333/0339	
Kvasnikova, L. N.;	Farber, Yu. V.	cnenko, W. I.;	Bokhov, B. B.; Grig	or'yev, Yu.G.;	
TITLE: The import	ance of the westi	bular anlayzer	in the selection and	d training	
SOURCE: Konforento Aviataionnaya i kon konforentaii. Monoc					
TOPIC TAGS: rotati	ng chamber, tilt	table, rotation	effect, man, Corio	lin accelera-	•
ABSTRACT: One of t should be based is other systems (i. e interoceptors) which almost equal imports	he main criteria the evaluation of , the visual ana	upon which the the vestibular lyzer, the reti	system of cocmonrat analyzer. The wa	Jelection Justion of	:
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ore in response to atimulation obtained during the combined action of angular and linear accelerations. Laboratory tests with the periodic application of Coriolis accelerations accompanied by slow rotation have indicated that even a short rotation leads to a disruption of walking, to a change in skin temperature, and to a change in the pulse frequency. At the same time, a lowering of the threshold of sensitivity to Coriolis accelerations was noted without the threshold 'n regular acceleration being affected. A very interesting interrelationship exists between the vestibular and optical analyzers. Laboratory experiments have confirmed that atimulation of the retina has an inhibiting effect on the vestibular analyzer. Tests have indicated that the result of interaction between the optical and the vestibular stimuli is determined by the functional condition of the vectibular		The state of the s
 analyzor. It became apparent that if the excitability of the vestibular analyzor was increased by radioactivity, inhibition of spontaneously arising mystagens by optical stimulation of the retina became more distinct. The level of excitability of the vestibular analyzer was achieved by means of radioactive tare. ASSOCIATION: none Summitte: 21 Sert 62		
	535 4 555000 3	

FARBER, YU.V.

7

ACCESSION NR: AT4042700

5/0000/63/000/000/0339/0343

AUTHOR: Lebedinskiy, A. V.; Arlashchenko, N. I.; Busy'gin, V. Ye.; Vartbaronov, R. A.; Veselov, A. S.; Volokhova, N. A.; Grigor'yev, Yu. G.; Yemel'yanov, M. D.; Kalyayeva, T. V.; Kry'lov, Yu. V.; Polyakov, B. I.; Farber, Yu. V.

TITLE: Effects of Coriolis accelerations on the human organism

SOURCE: Konferentsiya po aviatsionmoy i kosmicheakoy mediteine, 1963. Aviatsionmaya i kosmicheskaya mediteina (Aviation and space medicine); materialy* konferentsii. Moscow, 1963, 339-343

TOPIC TAGS: vestibular analyser, commonant selection, commonant training, semicircular canal, acceleration, rotation, mystagmus, optical analyzer, Coriolis acceleration

ABSTRACT: Studies of the effect of prolonged Coriolis accelerations on the human organism must be made as a preliminary step toward the creation of artificial gravity in spaceships. Studies were performed in a slowly rotating MBK-1 chamber (a cylindrically shaped room 2.1 m in diameter and 2.3 m high, equipped with two armchairs). In the first series of experiments, 13 healthy persons were subjected

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ACCESSION NR: AT4042700

to prolonged rotation of 1 to 5 hours at an angular velocity of 5.30/sec. In the second series of experiments, 4 subjects were rotated for 24 hours at annular velocities of 5.3, 10.6, and 21.20/sec. Coriolis accelerations sere created periodically by tilting the body and head in a plane perpendicular to the plane of rotation of the chamber at the rate of 1 sovement/sec. Prolonged stay of subjects with normal vestibular sensitivity under conditions of rotation at 5.3, 10.6, and 21.20 sec resulted in functional changes in the condition of the central nervous system and the cardiovascular system, and in disruption of the body temperature control and the balancing function. The degree of vegstative disorders was found to be directly proportional to the speed of rotation and the degree of vestibular sensitivity of the subjects developed an adaptation which was noted from 1 to 5 hours after beginning of the rotation. On the basis of the results obtained, the method of prolonged slow rotation is recommended for training purposes.

ASSOCIATION: none

SUBNITTED: 278ep63 ENCL: 00 SUB COUN: L5

NO RIF SOV: 000 OTHER: 000

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP

CIA-RDP86-00513R000412420013-4

I 10272-66 EWT (1)/FS (v)-3 DD

ACC NRI AP5028883

SOURCE CODE: UR/0219/65/060/011/0003/0006

AUTHOR: Grigor'yev, Yu. G. (Moscow); Farber, Yu. V. (Moscow)

£

ORG: none

TITLE: The functional condition of the vestibular analyzer in man during a 120-day stay in a hermetically sealed chamber

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 60, no. 11, 1965, 3-6

TOPIC TAGS: vestibular analyzer, stimulus, cerebral cotex, counterrotation illusion, vestibular function, nystagmus

ABSTRACT: The demonstrated ability of inadequate vestibular stimuli to affect vestibular function was studied in conditions simulating life inside a spaceship. Five healthy men aged 19—32 stayed in a hermetically sealed chamber for 120 days during which time they were examined at monthly intervals. Examination was also conducted 3, 8, 18, and 33 days after they had left the chamber. The threshold of vestibular sensitivity (to an adequate stimulus) was determined on a rotating chair with the subject's head fixed at a 30° angle to the axis of rotation. The adequate stimulus consisted of the negative angular acceleration which developed when the chair stopped. Vestibular sensitivity was judged by the appearance of nystagmus and the illusion of counterrotation. There was a direct correlation between the magnitude of the stimu-

Card 1/2

UDC: 613.693:612.886

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ACC NR: AP5028883

lus and the length of nystagmus in all subjects. Experimental results showed changes in nystagmus during the subject's stay in the sealed compartment: both the duration of nystagmus and the slope of plotted nystagmus curves decreased. Individual differences were noted in the pattern of decrease of these factors. No reliable changes were observed in vestibular autonomic reactions during the observation period (arterial pressure, pulse rate, etc.). The threshold of sensitivity to mystagmus changed very little. By the end of the experiment, changes in cupulograms were similar for all subjects; hence, the medium which the subjects inhabited definitely influenced the condition of the vestibular analyzer. The fact that adequate vestibular stimuli are absent in these experimental conditions (with the exception of some limited motor activity) is a strong indication that the changes observed in nystagmus probably reflect functional changes in the cerebral cortex rather than changes in the receptor apparatus of the vestibular analyzer. Furthermore, increases in thresholds of the sensory component of the vestibular reaction (illusion of counterrotation) observed after subjects left the chamber were probably due to readaptation to a new routine and different physical conditions. Orig. art. has: 3 tables. [JS]

SUB CODE: 06/ SUBM DATE: 18Jan65/ ORIG REF: 005/ OTH REF: 003/ ATD PRESS:

60

Card 2/2

nb/ab SCTB EWT(1)L 08851-67 SOURCE CODE: UR/0000/66/000/000/0370/0371 ACC NR. AT6036676 AUTHOR: Farber, Yu. V. ORG: none TITLE: Problem of obtaining quantitative characteristics of the functional state of the human vestibular analyzer by means of rotation tests [laper presented at the Conference on Problems of Space Medicine held in Moscow from 24-27 May 1966 SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Noscow, 1966, 370-371 TOPIC TAGS: biologic acceleration effect, coriolis acceleration, vestibular function, vestibular analyzer, nystagmus, electroretinography, visual analyzer A number of investigators have established a logarithmic dependence ABSTRACT: between the magnitude of angular acceleration and duration of nystagmus and postrotational illusions which occur only within a definite range. The problem of repeating results from test to test has not been solved relative to the use of threshold and subthreshold values of angular accelerations. It is proposed that correlation between sensory and somatic reactions during Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

L 08851-67

ACC NR: AT6036676

threshold and subthreshold stimulation of the vestibular analyzer should be attempted.

Fifty male subjects were examined on a VU-2 (Yu. G. Grigor'yev, V. V. Bok (v) electrical rotating unit. The duration of postrotational illusion, nystagmus, and the number of nystagmic movements in response to stop-stimuli (negative angular acceleration expressed in units of angular rate) were studied. The following stimuli were administered during subthreshold tests: 15, 30, 60, 90, 120, 150, and 180° /sec. Nystagmus was recorded electronystagmographically and the data were processed statistically.

It was found that the duration of postrotational reactions was proportional to the logarithm of stop-stimuli: for postrotational illusion, up to 60° /sec; for nystagmus, up to 60-90°/sec; for a number of nystagmic movements, up to 90-120° /sec. It was proposed that the use of stimuli exceeding set values for sensory and some tic reactions influences the functional capacity of the human vestibular analyzer. It was further shown that there is no threshold and duration dependence between nystagmus and postrotational illusion. It was established that during a vestibular stimulus duration within two seconds, a constant time product of acceleration (called Mul'der's law) is observed.

Ді.A. No. 22; ATD Report 66-1167 SUB CODE: 06 / SUBN DATE: Card 2/2 . 00\\ay66

CIA-RDP86-00513R000412420013-4"

APPROVED FOR RELEASE: 03/13/2001

SHAKHTAKHTINSKIY, T.N.; SADYKHOVA, Kh.I.; FARBERG, Z.M.

Preparation of maleic anhydride by the catalytic oxidation of butylenes in a fluidized bed of a catalyst. Azerb. knim. zhur. no. 2:91-94 '65. (MIRA 18:12)

1. Institut meftekhimicheskikh protsessov AN AzerSSR. Submitted Sept. 10, 1964.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

TERMOLENKO, A.I., Prof., FARBERMAN, V.I., kand.med.nauk., SITKEVICH, V.Yu.

Current picture of the patients in a septic surgery department and polyclinic. Sov.med. 22 no.11:109-113 N'58 (MIRA 11:11)

1. Iz gospital'now khirurgicheskoy kliniki (zav. - prof. A.V. Smirnov)

Leningradskogo sanitarno-gigiyenicheskogo instituta.

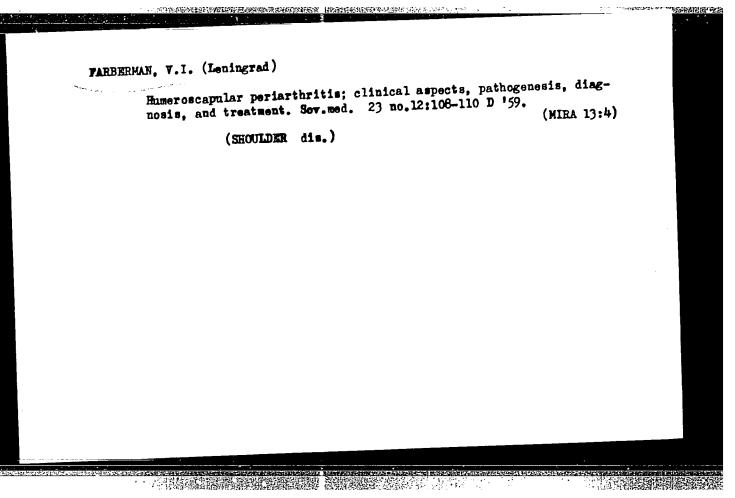
(HOSPITALS.

septic surg., department (Rus))

(OUTPATIENTS SERVICES.

surg. (Rus))

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"



AVER'YANOV, V.; CORSHKOV, A.P.; DZHERRASHYAN, R.A.; FARBEROV, A.; SHTEYNBFRG, G.S.

Crater of the Klyuchevskaya Sopka in September 1962. Biul. vulk. sta. no.37:33 '64. (MIRA 18:3)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

POPOV, V.V.; FARBAROV, A.I.

Effect of light on corneal induction. Mauch.dokl.vys.shkoly; biol.nauki no.3:48-60 58. (HIRA 11:12)

l. Predstavlena kafedroy embriologii Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.

(CORNEA) (LIGHT--PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

POPOV, V.V.; FAREEROV, A.I.

Electroretinogram of the irradiated eye and induction of the cornea. Izv. AN SSSR. Ser. biol. 27 no.1:102-105 Ja-F '62.
(MIRA 15:3)

1. Chair of Embryology, Moscow State University.
(CORNEA TRANSPIANTATION)
(RADIATION--PHYSIOLOGICAL EFFECT)

SIRIN, A.N.; FAREEROV, A.I.

Eruption of the Ploskiy Tolbachik Volcano in 1961-1962.
Biul. Vulk. sta. no.34:8-11 '63. (MIRA 16:10)

KIRSANOV, I.T.; SERAFIMOVA, Ye.K.; SIDOROV, S.S.; TRUBENKO, V.F.;

FARBEROV, A.I.; FEDORCHENKO, V.A.; SHILOV, V.N.

Eruption of the Ebeko Volcano from March to April, 1963.

Biul. vulk. sta. no.36:66-72 '64. (MIRA 17:9)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000412420013-4"

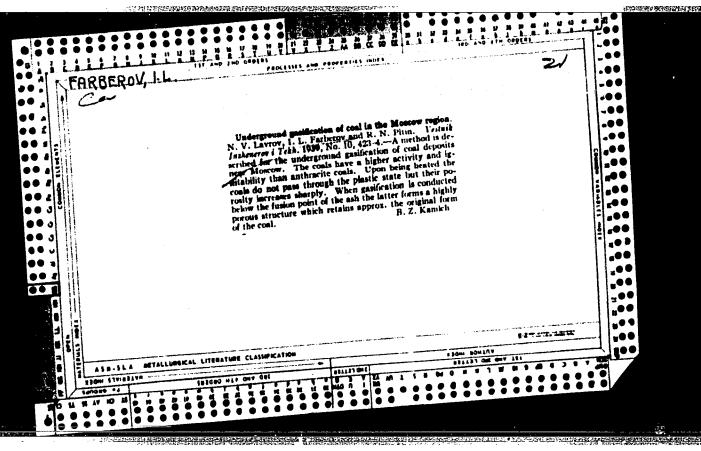
FARBEROV, A.I.; SOKOLOVA, Z.A.; POPOV, V.V.

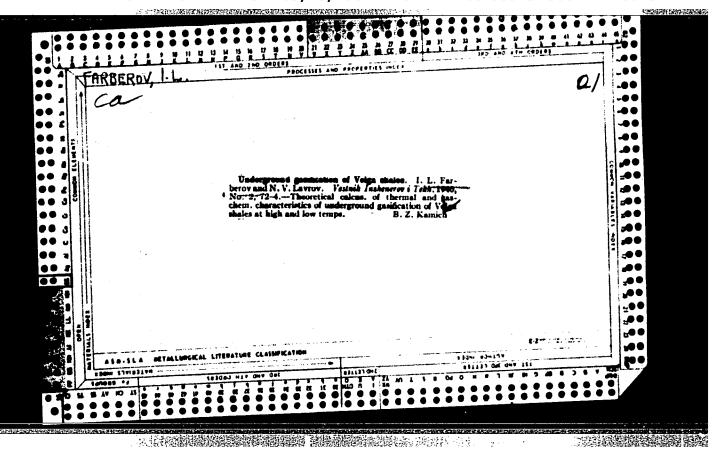
Effect of X-ray irradiation on the retina of grass frog.
Radiobiologiia 5 no.2:319-320 765. (MIRA 18:12)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

	Shiring.
SOURCE CODE: UR/3233/66/000/041/0020/0024	
ACC NRI ATOUS 0299	
AUTHOR: Corel'chik, V. I.; Farberov, A. I.	
ORG: none	
TITLE: Recording of near earthquakes at the Avacha seismic station	
SOURCE: AN SSSR. Sibirskoye otdeleniye. Institut vulkanologii. Byulleten' vulkanologicheskikh stantsiy, no. 41, 1966, 20-24	
TOPIC TAGS: mest-continuate, earthquake, seismic wave recording warthquake into seismography	
ABSTRACT: To measure the influence of local geologic conditions on the recording of near earthquakes, records obtained at the Avacha seismic station situated on a loosely consolidated ground layer were compared with those obtained at the Petro-pavlovsk station situated on solid rock 27 km away, and at the Verblyud station situated on extrusive rocks. The Avacha station is located over a Cretaceous situated on extrusive rocks. The Avacha station is located over a Cretaceous crystalline basement having a density of 2.3 g/cm ³ and an average longitudinal-crystalline basement having a density of 2.0 g/cm ³ and a longitudinal-redeposited pyroclastic material having a density of 2.0 g/cm ³ and a longitudinal-redeposited pyroclastic material having a density of 2.0 g/cm ³ and a longitudinal-wave velocity of 2 km/sec. VEGIK beismographs GB-IV galvanometers and RS-2 rewave velocity of 2 km/sec. VEGIK beismographs that oscillation records at the corders were used in the tests. Studies showed that oscillations of the loosely Avacha station were distorted as the result of the natural oscillations of the loosely	
Card 1/2	
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as 2.6 times g	greater than that	emplitude of the soil of the extrusive rock wacha station was fou a stations located or	nd to be about 1	scale degree	
figures and	2 formulas.	/ ORIG REF: 006/			
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Card 2/2					244

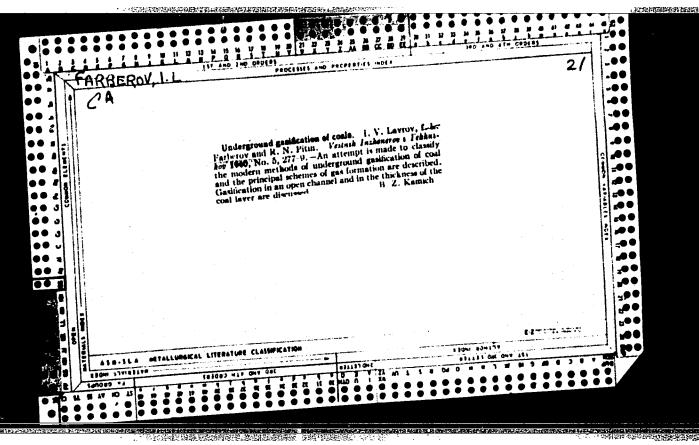




LAYROV, N. V., PITIN, R. N., FARBEROV, L.

"Underground Gasification of Moscos-Basin Coal in a Filtration Channel," Iz. Ak. Nauk
SSSR, Otdel. Tekh. Nauk, No. 4, 1940.

Report U-1530, 25 Oct 1951



FARBEROV, I-L.

CHERNYSHEV, A.B., AND FARBEROV, I.L.

Corresponding Members, Academy of Sciences, USSR (-1944-)

Power Engineering Institute imeni G.M. Krshishanovskiy, Academy of Sciences, USSR (-1944-)

"Concerning Expansion of Combustion Hearth in Continuous Underground Gas Generator". Iz. Ak. Nauk. SSSR. Otdel. Tekh. Nauk. Nol 12, 1944

FARBEROV, I. L.

"Filtration of a Gas by a Reactive Porous Medium," by A. B. Chernyshev, A. A. Pomerantsev, I. L. Farberov, Dok. Akad. Nauk. SSSR 56, 727-9 (1947).

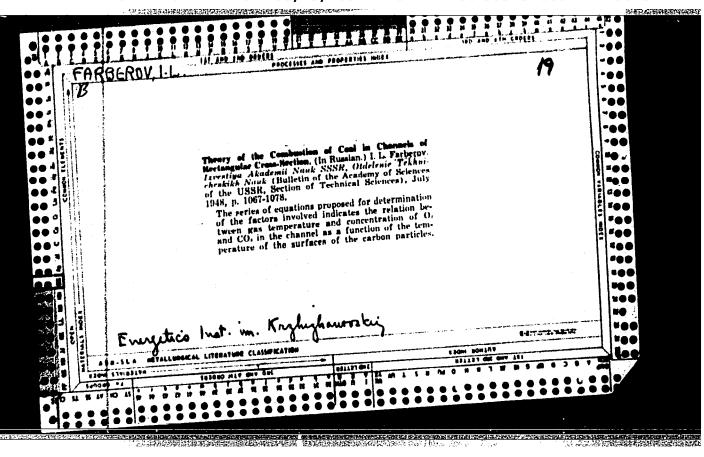
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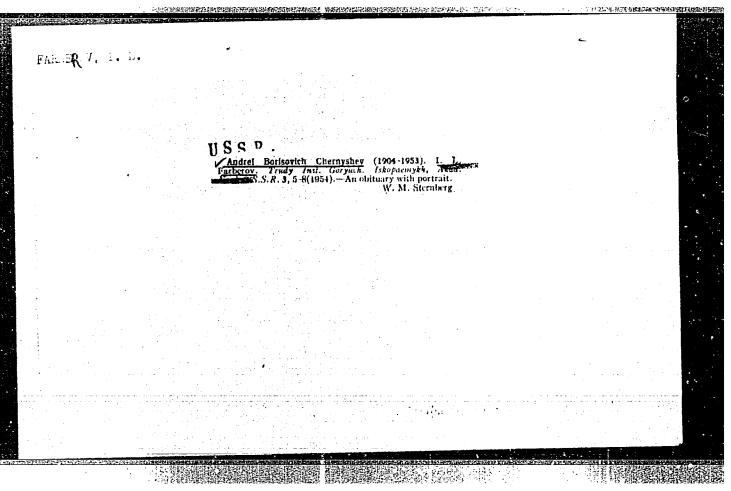
FARBEROV, I. L. and PITIN, R. N.

"Underground Gasification of Coal (Podzemnaya Gazifikatsiya Ugley) /Publications of the Academy of Sciences of the USSR, 1948.

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000412420013-4





PHRBERCY, I.L.; PRIDMAN, G.B., redaktor; TERPIGOREY, A.H., skademik, redaktor; Polesitskata, S.M., tekhnicheskiy redaktor

[Underground coal gasification] Podzemniia gazifikatsiia.

[Underground coal gasification] Podzemniia gazifikatsiia.

[Moskva, Izd-vo Akademii nauk SSSR, 1955.78 p. (MLRA 9:1)

(Coal--Gasification, Underground)

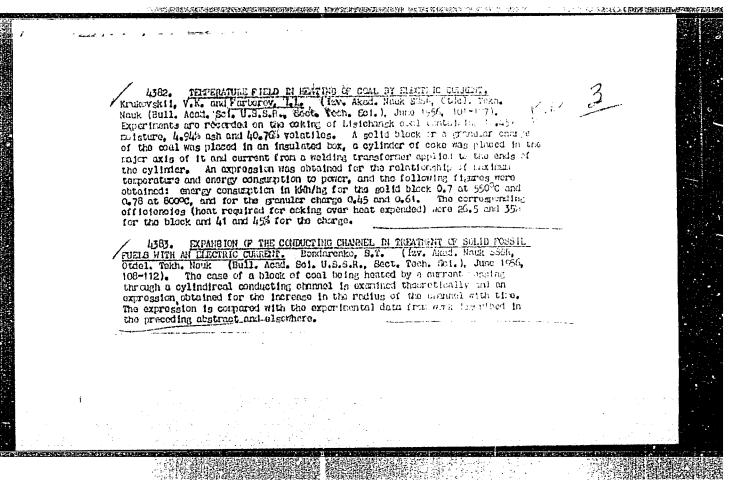
CHERNYSHEV, Andrey Borisovich; IAVROV, N.V., doktor tekhnicheskikh nauk, otvetstvennyy redaktor; FARBEROV, I.L., doktor tekhnicheskikh nauk, redaktor; redaktor; SHISHAKOV, N.V., doktor tekhnicheskikh nauk, redaktor; IVANOV, V.M., AL'TSHULER, V.S., doktor tekhnicheskikh nauk, redaktor; IVANOV, V.M., kandidat tekhnicheskikh nauk, redaktor; FITIN, R.N., kandidat tekhnicheskikh nauk, redaktor; KLIMOV, V.A., redaktor izdatel'stva; SOMOROV, B.A., tekhnicheskiy redaktor

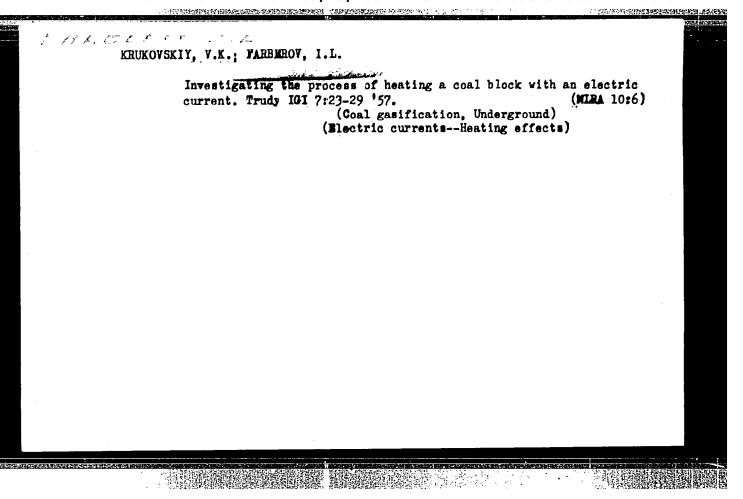
[Selected works] Isbrannye trudy. Moskva, Isd-vo Akademii nauk SSSR, 1956. 368 p. (MLRA 9:8)

1. Chlen-korrespondent AM SSSE (for Chernyshev)
(Goal gasification)

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FARBEROV, I.L.								
, .	Heating pro (Shale)	cess of (Coal	"kukkersite' gasification	oil shale n. Undergrou	s. Trudy 1 ind)	91.7141-43 (MIRA	'57. 10:6)	

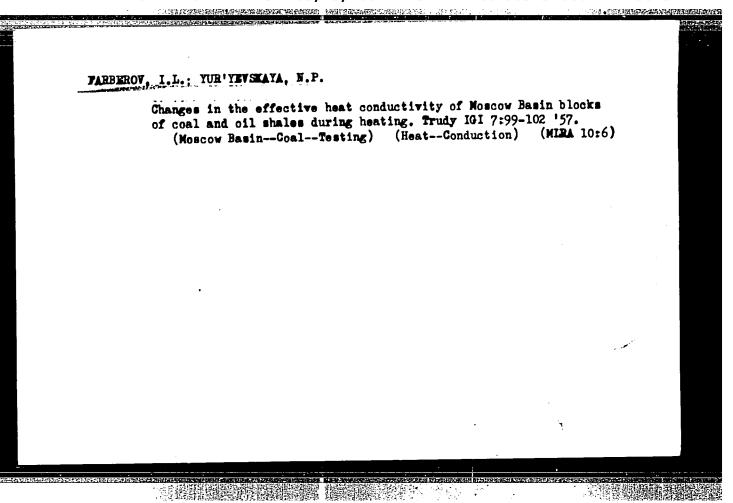
PITIN, R.N.; SPORIUS, A.E.; PARBEROV, I.L.

Pirst experiment in the gasification of oil shales. Trudy 101 7:44-60
(MIRA 10:6)

(Shale) (Coal gasification, Underground)

FARBEROV, I.L.; AVDONINA, Ie.S.; YUR'YEVSKAYA, N.P.

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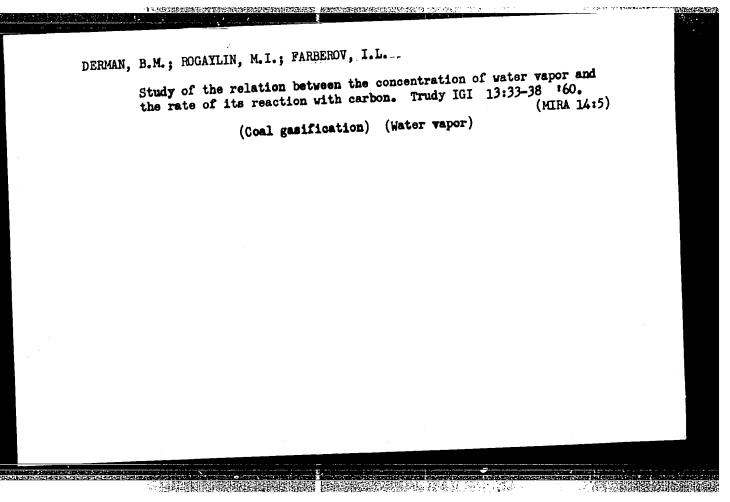
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